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APPLICATION NO.	FILIN	IG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,876	07/15/2003		Hiroshi Akimoto	SCT106U	7614
David L. Garri	7590 SOn	07/19/2007		EXAM	INER
Garrison & Ass		S .	PERUNGAVOOR, SATHYANARAYA V		
Suite 3300 2001 Sixth Ave	enue	•	•	ART UNIT	PAPER NUMBER
Seattle, WA 98			2624		
					,
				MAIL DATE	DELIVERY MODE
				07/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
		10/620,876	AKIMOTO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Sath V. Perungavoor	2624			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address			
A SH WHIC - Exter after - If NO - Faitu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAnsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed. the mailing date of this communication. D (35 U.S.C. § 133).			
Status		·				
1)⊠	Responsive to communication(s) filed on <u>04 Ju</u>	ine 2007.				
•	This action is FINAL . 2b) This action is non-final.					
3)[
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or					
Applicati	on Papers		•			
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the lddrawing(s) be held in abeyance. Serion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F	ate			
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

Applicant(s) Response to Official Action

[1] The response filed on June 4, 2007 has been entered and made of record.

Response to Arguments/Amendments

[2] Presented arguments have been fully considered, but are rendered moot in view of the new ground(s) of rejection necessitated by amendment(s) initiated by the applicant(s).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- [3] Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Iwahashiⁱ et al. ("Iwahashi") in view of Tongⁱⁱ et al. ("Tong").

Regarding claim 1, Iwahashi discloses the following claim limitations:

A method for compressing still images that are stored in electronic media [fig. 3] comprising the step of: a. selecting (i.e. input image-X) the image to be compressed [fig. 3]; b. selecting the desired degree (i.e. maximum unified coding gain) of compression [page 634, col. 1, section 3.1]; c. constructing non-separable wavelet (i.e. subband) filters (i.e. determining filter coefficients), based on the desired degree of compression (i.e. maximum

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unified coding gain) for the image, for decomposition of the image by non-separable wavelet transformation [page 634, col. 1, section 3.1; fig. 3]; d. transforming the image into an array of frequency coefficients (i.e. subband coefficients) of the pixels by executing one level of decomposition for each filters [fig. 3(a)]; e. quantizing the values of the frequency coefficients [page 634, col. 2, section 4.2; fig. 3]; whereby the image is restored in the YCbCr format through the use of a pre-designated reconstruction formula; and transformed into the RGB palette after reconstruction is complete [This limitation appears to be the intended result of the method positively recited, hence not given patentable weight. See MPEP 2111.04. It is also noted that limitation recites a concept notoriously well-known to image compression, for example JPEG 2000, hence the Examiner further takes Official Notice.]

Iwahashi does not explicitly disclose the following claim limitations:

f. encoding the quantized values by run length and arithmetic coding methods;

However, in the same field of endeavor Tong discloses the deficient claim limitations, as follows:

Encoding the quantized values by run length (i.e. 4) and arithmetic coding (i.e. 6) methods [Fig. 1; col. 11, ll. 55-65].

It would have been obvious to one with ordinary skill in the art at the time of invention to modify the teachings of Iwahashi with Tong to encode by run length and arithmetic coding, the motivation being to achieve better compression [col. 3, ll. 5-15].

Conclusion

[3] Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Contact Information

[4] Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Sath V. Perungavoor whose telephone number is (571) 272-7455. The examiner can normally be reached on Monday to Friday from 8:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Matthew C. Bella whose telephone number is (571) 272-7778, can be reached on Monday to Friday from 9:00am to 5:00pm. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent
Application Information Retrieval (PAIR) system. Status information for published applications
may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system,

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dated: July 12, 2007

Matthew C. Bella Sath V. Perungavoor Page 5

Telephone: (571) 272-7455

NPL document titled "Two Channel Non-Separable 2D Subband Coding and Its Optimization"

" US 5,982,434

MATTHEW C. BELLA SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600